

Easy-Mix PU-90 Polyurethane Adhesive

high-strength | extremely fast-curing | high viscosity | pot life approx. 90 seconds

WEICON Easy-Mix PU-90 Structural Adhesive is a high-strength, extremely fast-curing, highly viscous adhesive, which can be sanded and painted over after approx. 30 minutes. It is weather-resistant, resistant to chemicals and temperature-resistant from -55°C to +125°C (-67 to +257°F). WEICON PU-90 can be used to bond numerous materials such as composite materials, plastics, polyurethane, epoxies, polyester, metals, wood and ceramics to themselves and to each other with high tensile, shear and peel strength. PU-90 can be used in plastic technology, machine construction, model and mould making, metal construction, ship and boat building, carriage and vehicle construction, trade show and exhibition construction and in many other applications.

Characteristics

Base	polyurethane
Colour	black

Processing

Mixing ratio by weight	1:1
Density of the mixture	1,30-1,35 g/cm ³
Gap bridging up to max.	0.1 mm

Curing

Pot life	at 20 °C	90 sec.
Handling strength	(35 % strength)	5 min.
Working strength after	(50 % strength)	10 min.
Final strength	(100 % strength)	12 h

Mechanical properties after curing

Tensile strength	DIN EN ISO 527-2	21 N/mm ²
Elongation at break (tensile)	DIN EN ISO 527-2	35 %
E-modulus (tensile)	DIN EN ISO 527-2	650-750 N/mm ²
Hardness (Shore D)		66
Lap shear strength material thicken. 1,5mm DIN EN 1465		
Steel 1.0338 sandblasted		19 N/mm ²
Stainless steel V2A sandblasted		17 N/mm ²
Aluminium sandblasted		13 N/mm ²

Thermal parameters

Temperature resistance		-55°C to +125°C
Heat deflection resistance	DIN EN ISO 75-2	+65 °C
Temperature conductivity		0,186 mm ² /s
Thermal conductivity	DIN EN ISO 22007-4	0,283 W/m·K
Heat capacity	DIN EN ISO 22007-4	1.268 J/(g·K)

Electrical parameters

Resistance		1,90 · 10 ¹²
Dielectric strength	DIN EN 60243-1 (20°C)	>22 kV/mm

Specific properties

IMPA Code	812987
ISSA Code	75.530.02

Instructions for use

When using WEICON products, the physical, safety-related, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

Surface pre-treatment

For a flawless adhesive bond, surfaces must be clean and dry (e.g.

clean and degrease with Surface Cleaner). Higher strengths can be achieved by further pre-treatment of the surfaces, such as roughening by blasting or grinding. Some low-energy plastics, especially PTFE and polyolefins etc., can only be bonded after special pre-treatment of the surfaces by e.g. fluorination, low-pressure plasma, corona, flame treatment, or similar.

Storage

Shelf life of 18 months when unopened and stored in normal climate (+23°C and 50 % rel. air humidity).

Scope of delivery

Resin & Hardener | Gloves | Quadro Mixing Nozzle

Accessories

10650005	Quadro Mixing Nozzle, 1 PCE
10653050	Dispenser Easy-Mix D 50, 1 PCE
10953001	Processing spatula, 1 PCE
12955175	Dosing Tip, 1 PCE

Conversion table

(°C x 1,8) + 32 = °F	Nm x 8,851 = lb·in
mm/25,4 = inch	Nm x 0,738 = lb·ft
µm/25,4 = mil	x 141,62 = oz·in
N x 0,225 = lb	mPa·s = cP
N/mm ² x 145 = psi	N/cm x 0,571 = lb/in
MPa x 145 = psi	kV/mm x 25,4 = V/mil

Available sizes:

10751050	Easy-Mix PU-90 Polyurethane Adhesive, 50 ml, black
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